

For each question, you need to find the answer and show your work. Each problem is worth 3 points: one for the correct answer and two for showing your work. For some problems, you may just need to write out how you know you have the correct answer.

1. The San Francisco Giants team won 86 of their 162 games this season. About what percent of those games did the team win?

2. At Mitarnowski Memorial High School, about 72% of the students participate in extracurricular activities. If there are 1,745 students in school, how many participate?

3. A stamp that was sold at an auction in 1958 for \$41 is worth 810% of that today. What is its value today?

4. A book is on sale for 15% off the original price. It is selling for \$21.25. What was the original price?

5. Proportions review: Determine if the proportion $\frac{3}{5} = \frac{36}{60}$ is true.

6. Fuzzy Jeff came to 85% of the meetings of his club. If he attended 34 meetings, how many did he miss?

7. Maggie Brann saves 45% of her part-time job earnings. Last month, she saved \$324. How much did she earn?

8. Some restaurants add an 18% tip to the bill for large parties. If a check is \$231 (tip not included), what is the total cost of dinner, including the 18% tip?

9. Last year, Shecky received a raise in his salary. He now earns 120% of what he earned last year. If his salary is \$612 per week, what was it before the raise?

10. Proportion Review: Solve $\frac{4}{7} = \frac{60}{x}$.

Open-Ended Question: Answer the following question on a separate piece of paper. Make sure as you answer the open-ended question that you show your work AND explain how you know you are doing the correct work. YOU MUST EXPLAIN WHAT YOU ARE DOING!!!

Matt Mitarnowski compared HDTVs that were on sale at two competing stores. HDTV A was 25% off the original price of \$878. HDTV B was 30% off of the original price of \$989. Both TVs are the same size and power.

A. What proportions could help Matt determine the sale price of HDTV A? HDTV B?

B. What are the sale prices of HDTV A and HDTV B? Which one should he buy?